

**ABSTRACT**

The invention is directed techniques for coordinating telemetry of medical devices with magnetic resonance imaging (MRI) techniques. By coordinating telemetry of a medical device with the performance of MRI techniques with, the use of telemetry during MRI may be facilitated. In one example, information indicative of electromagnetic radiation bursts in MRI techniques can be communicated to the medical device prior to execution. In another example, the medical device may identify the electromagnetic radiation bursts, e.g., by measuring for the presence of such bursts. In either case, the medical device can adjust its telemetry to improve communication during MRI.